

Notice of Allowability

Application No.

10/058,435

Examiner

Adam R. Giesy

Applicant(s)

OGAWA ET AL.

Art Unit

2656

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 2/10/2006.
2. ☒ The allowed claim(s) is/are 1-8.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date <u>2/10/2006</u> | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |

DETAILED ACTION

Allowable Subject Matter

1. The following is an examiner's statement of reasons for allowance:

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Claims 1-8 are allowed over prior art of record.

Independent claim 1 is allowed since the claim recites an information recording apparatus with a disk driver, a laser optical system, a controller for controlling laser power, **wherein the controller sets a response speed for changing the laser power from a first value to a second value during recording in the constant angular velocity mode slower than a response speed for changing the laser power from the first value to the second value during recording at a constant linear velocity mode.**

Independent claim 4 is allowed since the claim recites an information recording apparatus with a disk driver, a laser optical system, a detector for detecting laser power, and a processor that **sets a response speed for adjusting the laser power from a first value to a second value during recording in the constant angular velocity mode slower than a response speed for adjusting the laser power from the first value to the second value during recording at a constant linear velocity mode.**

Independent claims 5 and 7 are allowed since the claims recite a driving method or a computer readable medium containing a computer program comprising: determining a record start, determining a record position in a CAV area, instructing a constant angular velocity drive **and setting a first servo gain of a servo-loop controlling the laser power**, if the record position is in the CAV area, detecting a transition from a CAV area to a CLV area, and instructing a constant linear velocity drive **and setting a second servo gain of the servo-loop controlling the laser power larger than the first servo gain**, if the transition is detected.

The closest prior art by Maekawa (JP Doc. No. 2000-173089) discloses a system that adjusts the laser power when a disc of a CAV or CLV format is put into the oppositely formatted system (CLV or CAV respectively). Maekawa does not disclose a dual CAV/CLV formatted disc in which the system must determine what mode to record in based on its location on the disc. Maekawa also does not disclose the ability to adjust the response speed of the laser – only to switch from one power to another depending on the type of disc that is inserted.

Other prior art by Kawashima et al. (JP Doc. No. 08-185663) discloses the detection of the change-over from CAV to CLV mode during the recording of a single disc. Kawashima also discloses the controlling and adjustment of the spindle motor rotation speed in order to better control the recording. Kawashima does not disclose controlling or otherwise limiting the laser power based on the change from CAV to CLV recording. Kawashima also does not disclose the ability to adjust the response speed of the laser.

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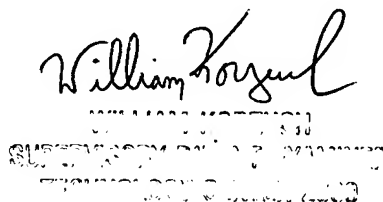
Conclusion

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Adam R. Giesy whose telephone number is (571) 272-7555. The examiner can normally be reached on 8:00am- 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William R. Korzuch can be reached on (571) 272-7589. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ARG 3/14/2006



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